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PTO/SB/21 (08-03)  
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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/707,802	
	Filing Date	01/13/2004	
	First Named Inventor	Yung-Chuan Tseng	
	Art Unit		
	Examiner Name		
Total Number of Pages in This Submission	3	Attorney Docket Number	OTMP0061USA

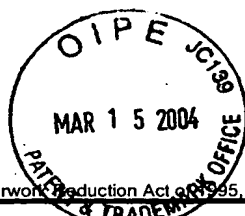
ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
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<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input type="checkbox"/> Other Enclosure(s) (please identify below):
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<input type="checkbox"/> Response to Missing Parts/Incomplete Application	Response to the office action has been sent to the examiner by fax on 12/04/2003	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Winston Hsu, Reg. No.: 41,526
Signature	
Date	3/12/2004

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# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ ) 0.00

## Complete if Known

Application Number	10/707,802
Filing Date	01/13/2004
First Named Inventor	Yung-Chuan Tseng
Examiner Name	
Art Unit	
Attorney Docket No.	OTMP0061USA

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

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## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)					(\$ ) 0.00

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Extra Claims Fee from below Fee Paid  
Total Claims  -20\*\* =  X  =   
Independent Claims  -3\*\* =  X  =   
Multiple Dependent  =

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ ) 0.00

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ ) 0.00

## SUBMITTED BY

Name (Print/Type)	Winston Hsu	Registration No. (Attorney/Agent)	41,526	Telephone	886289237350
Signature	<i>Winston Hsu</i>	Date	3/12/2004		

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PTO/SB/02B (11-00)

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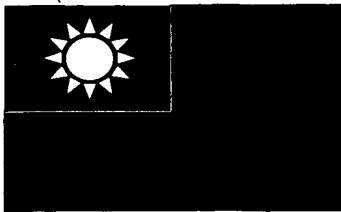
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**DECLARATION — Supplemental Priority Data Sheet**

Additional foreign applications:

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
092202467	Taiwan R.O.C	02/12/2003	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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OTM-061-TWN

943762

中華民國經濟部智慧財產局

INTELLECTUAL PROPERTY OFFICE  
MINISTRY OF ECONOMIC AFFAIRS  
(REPUBLIC OF CHINA)

茲證明所附文件，係本局存檔中原申請案的副本，正確無訛，  
其申請資料如下：

This is to certify that annexed is a true copy from the records of this  
office of the application as originally filed which is identified hereunder:

申請日：西元 2003 年 02 月 12 日  
Application Date

申請案號：092202467  
Application No.

申請人：中強光電股份有限公司  
Applicant(s)

局長  
Director General

蔡練生

發文日期：西元 2003 年 9 月 16 日  
Issue Date

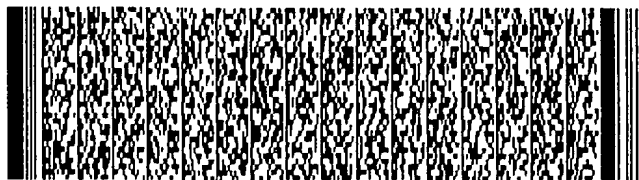
發文字號：09220933390  
Serial No.

申請日期：	IPC分類
申請案號：	

(以上各欄由本局填註)

## 新型專利說明書

一、 新型名稱	中文	背投影電視排氣結構
	英文	EXHAUSTING STRUCTURE FOR A REAR PROJECTION TV
二、 創作人 (共3人)	姓名 (中文)	1. 曾湧泉 2. 周博斌 3. 袁一誠
	姓名 (英文)	1. Tseng Yung Chuan 2. Bor-Bin Chou 3. Yuan Yi Cheng
	國籍 (中英文)	1. 中華民國 TW 2. 中華民國 ROC 3. 中華民國 TW
	住居所 (中文)	1. 新竹科學工業園區新竹市力行路11號 2. 新竹科學工業園區新竹市力行路11號 3. 新竹科學工業園區新竹市力行路11號
	住居所 (英文)	1. No 11, Li Hsing Rd, Science-Based Industrial Park, Hsinchu, R.O.C. 2. No 11, Li Hsing Rd, Science-Based Industrial Park, Hsinchu, R.O.C. 3. No 11, Li Hsing Rd, Science-Based Industrial Park, Hsinchu, R.O.C.
三、 申請人 (共1人)	名稱或 姓名 (中文)	1. 中強光電股份有限公司
	名稱或 姓名 (英文)	1. Coretronic Corporation
	國籍 (中英文)	1. 中華民國 TW
	住居所 (營業所) (中文)	1. 新竹科學工業園區新竹市力行路11號 (本地址與前向貴局申請者相同)
	住居所 (營業所) (英文)	1. No 11, Li Hsing Rd, Science-Based Industrial Park, Hsinchu, Taiwan, R.O.C.
	代表人 (中文)	1. 張威儀
	代表人 (英文)	1. Wade Chang

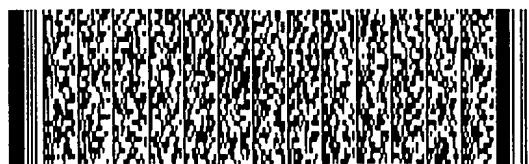


#### 四、中文創作摘要 (創作名稱：背投影電視排氣結構)

一種背投影電視排氣結構，係在背投影電視內部設立一隔離通風室，以通風室將光學引擎與殼體分隔，且於通風室中鄰近光學引擎一側設置一排氣風扇，抽吸背投影電視內部熱氣，進入一吸音材質且彎曲形狀之導風管，將熱氣經導風管引導，由設於通風室另一側出風口排出，將排氣風扇覆蓋隔離，以減少噪音。

#### 陸、英文創作摘要 (創作名稱：EXHAUSTING STRUCTURE FOR A REAR PROJECTION TV)

A exhausting structure for a rear projection TV installs a isolated ventilation chamber in TV to divide an optical engine from a TV housing. A exhausting fan is placed on one side of the ventilation chamber near the optical engine. Cooling air in TV is sucked by the exhausting fan, enters into a guarding elbow made of sound-absorbing material, and exhausted out of a vent on the other side of the ventilation chamber. The ventilation chamber covers the exhausting fan to reduce noise.



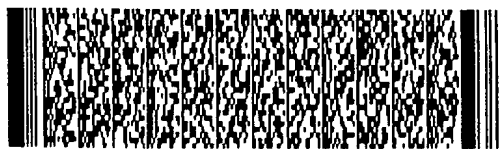
四、中文創作摘要 (創作名稱：背投影電視排氣結構)

伍、(一)、本案代表圖為：第\_\_\_3\_\_\_圖

(二)、本案代表圖之元件代表符號簡單說明：

20	背投影電視	21	通風室
22	排氣風扇	23	導風管
24	出風口	25	殼體
26	光學引擎	27	隔板
28	蓋板	29	柵欄

陸、英文創作摘要 (創作名稱：EXHAUSTING STRUCTURE FOR A REAR PROJECTION TV)



一、本案已向

國家(地區)申請專利

申請日期

案號

主張專利法第一百零五條準用  
第二十四條第一項優先權

二、☐主張專利法第一百零五條準用第二十五條之一第一項優先權：

申請案號：

日期：

三、主張本案係符合專利法第九十八條第一項☐第一款但書或☐第二款但書規定之期間

日期：



## 五、創作說明 (1)

### 【 新 型 所 屬 之 技 術 領 域 】

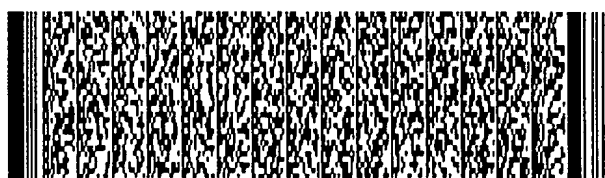
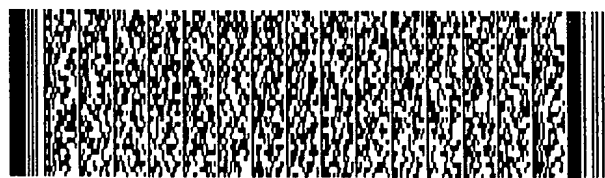
本創作係有關於背投影電視，尤其是背投影電視出風口之排氣結構。

### 【 先 前 技 術 】

近年來，背投影電視利用光學影像投射技術將影像放大，提供低價的大尺寸電視，而廣受消費者喜愛，由於影像投射需藉助高功率燈泡作為照明光源，以獲得高亮度畫面，因此需要風扇冷卻高溫燈泡及受熱之光學元件，以提高燈泡壽命，及維持光學元件最佳效能之工作溫度。

請參圖1，習知背投影電視10係於外殼11內，由設於底部之光學引擎12產生影像光束，投射於前方小反射鏡13，再反射至上方之大反射鏡14，最後將影像光束反射至前方螢幕15，形成供觀賞之畫面。為讓光學引擎12中高功率照明光源及其他電子元件所產生熱氣，順利排出而不聚積於背投影電視10內部，避免影響散熱效率，習知背投影電視10早期係在背面外殼11上，穿設許多小通風孔(未圖示)，利用自然對流方式將熱氣排出，然而小通風孔不僅無法防止灰塵污染光學元件，排熱效果也有限，且內部亦會產生熱回流而降低散熱效果，同時高亮度影像光束之雜散光，亦會穿過小通風孔造成外洩光，影響觀賞效果。

因此，習知背投影電視10就在靠近光學引擎12附近之背面外殼11上，設置排氣風扇16，以強迫方式將主要



## 五、創作說明 (2)

熱源光學引擎12之熱氣就近排出外殼11，且為提高排氣效果，排氣風扇16直接設在外殼11上。然此種配置，不僅排氣風扇16轉動及風切噪音，會毫無遮攔直接外傳形成雜音，光學引擎12高亮度影像光束亦會穿過排氣風扇16風扇轉動空隙而外洩，投射在附近牆壁或物體上形成反射光，對需較暗觀賞背景之背投影電視10，造成視覺干擾，且為不遮蔽排氣出口，背投影電視10背面無法靠牆放置，形成擺設限制等缺陷。

### 【新型內容】

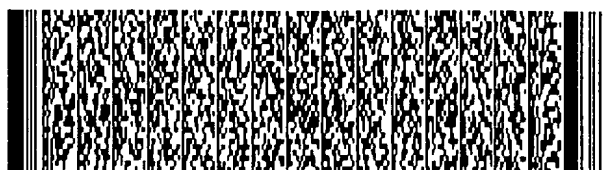
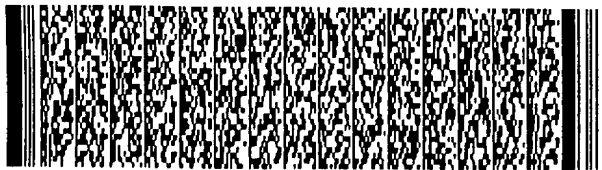
本創作之目的在提供一種背投影電視排氣結構，藉內藏獨立式排氣風扇，有效隔絕風扇轉動風切噪音。

本創作另一目的在提供一種背投影電視排氣結構，以彎曲導風管遮蔽雜散光防止外洩，並引導熱氣排出，避免產生熱回流，以提高散熱效果。

本創作又一目的在提供一種背投影電視排氣結構，適當配置出風口，以減少擺設空間限制。

本創作再一目的在提供一種背投影電視排氣結構，藉隔離式通風室，減少灰塵污染光學元件。

為達成上述之目的，本創作係在背投影電視內部設立一隔離通風室，以通風室將光學引擎與殼體分隔，且於通風室中鄰近光學引擎一側設置一排氣風扇，抽吸背投影電視內部熱氣，進入一吸音材質且彎曲形狀之導風管，將熱氣經導風管引導，由設於通風室另一側出風口排出，將排氣風扇覆蓋隔離，以減少噪音。



### 五、創作說明 (3)

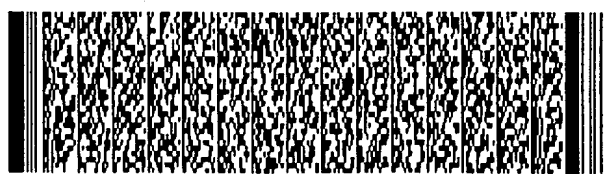
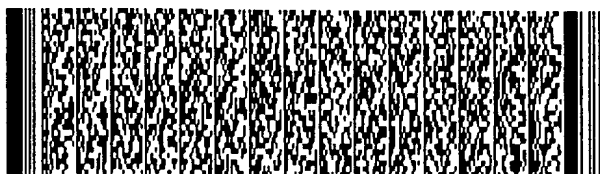
#### 【實施方式】

有關本創作為達成上述目的，所採用之技術手段及其餘功效，茲舉一較佳實施例，並配合圖式加以說明如下。

請參閱圖2，本創作實施例之背投影電視排氣結構，主要係在背投影電視20內部一側通風室21中，設置一排氣風扇22與導風管23。藉由排氣風扇22吸出背投影電視20內部熱氣，經導風管23引導，由設於通風室21外側之出風口24，排出背投影電視20外部。

其中，背投影電視20具有一殼體25，殼體25底部設一光學引擎26，光學引擎26之照明光源261設於光學引擎26一側，光源261附近設一隔板27，令隔板27與殼體25將背投影電視20一側下部隔成通風室21，隔板27上方連接一加強強度之支撐架271，且於隔板27近光源261位置挖設一通孔272，殼體25上相對通孔272位置設置一出風口24，出風口24上方之殼體25內側設另一加強支撐架241，並於兩支撐架271、241上覆蓋一蓋板28，使通風室21形成一獨立空間，以隔離光學引擎26光線及光源261熱空氣。

如圖3所示，排氣風扇22係裝設在通孔272內，鄰近主要熱源之照明光源261，出風口24則裝設一柵欄29，柵欄29具有向下傾導葉片291，一彎曲導風管23設在通風室21內，該通風管23可為橡膠或吸音材質所製成，以增加噪音吸收效果，通風管23一端套設在排氣風扇22排氣端



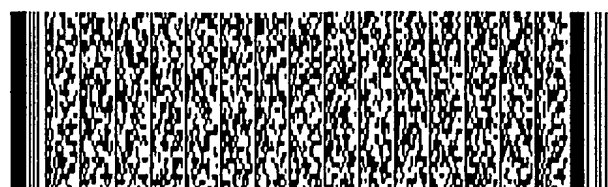
#### 五、創作說明 (4)

，另一端則連通至柵欄29，以引導熱氣排出。

本創作之背投影電視排氣結構，如圖4所示，光學引擎26及電子零件(未圖示)所產生之熱量，係藉由設於隔板27且靠近熱源之排氣風扇22抽吸，導入流線形導風管23，引導排出柵欄29，以避免熱氣聚積於背投影電20或通風室21產生熱回流，增加背投影電視內部散熱效果。此外，由於排氣風扇22係設於內層隔板27上，不僅可由外層柵欄29隔離，防止排氣風扇22直接曝露於背投影電視20外，且以通風室21覆蓋隔離，再加上吸音材質之導風管23，多道阻絕噪音，可將排氣風扇22轉動與風切噪音有效隔絕，以提高觀賞環境品質。

另外，本創作導風管23藉適當彎曲形狀，以阻絕光源26之光束經由排氣風扇22直接通過柵欄29外漏，由導風管23與柵欄29兩道防線，可有效遮住光束防止外漏，同時該彎曲導風管23與具有導葉片291柵欄29，再配合通風室21隔離背投影電視20內部，亦可減少灰塵侵入光學引擎26，防止污染光學元件，維持投影影像畫質。再者，柵欄29設於背投影電視20殼體25側邊，該殼體25側邊斜向後內縮，可使殼體25側邊不致於緊貼相鄰物體，留出柵欄29排出熱氣空間，減少擺放限制。

以上所述者，僅為用以方便說明本創作之較佳實施例，本創作之範圍不限於該較佳實施例，凡依本創作所作的任何變更，於不脫離本創作之精神下，皆屬本創作申請專利之範圍。



## 圖式簡單說明

### 【圖式簡單說明】

圖1 顯示習知背投影電視之結構示意圖。

圖2 顯示本創作背投影電視排氣結構之零件圖。

圖3 顯示本創作背投影電視排氣結構之組合圖。

圖4 顯示本創作背投影電視排氣結構之作動示意圖。

### 【主要部分代表符號】

20 背投影電視

22 排氣風扇

24 出風口

26 光學引擎

27 隔板

272 通孔

29 柵欄

21 通風室

23 導風管

25 殼體

261 光源

241、271 支撐架

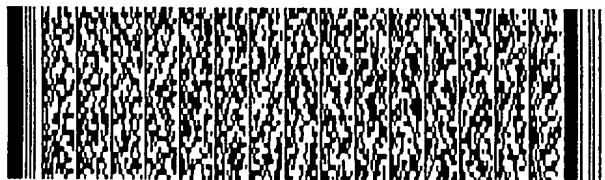
28 蓋板

291 導葉片



## 六、申請專利範圍

1. 一種背投影電視排氣結構，包含：  
一通風室，設在該背投影電視內部，且一側為背投影電視之殼體；  
一出風口，設於該通風室一側殼體上；  
一排氣風扇，設在該通風室相對殼體另一側；以及  
一導風管，一端連接於該排氣風扇，另一端連通至出風口。
2. 依申請專利範圍第1項所述之背投影電視排氣結構，其中該通風室相對殼體之另一側為一隔板，隔板上設一通孔裝設排氣風扇。
3. 依申請專利範圍第1項所述之背投影電視排氣結構，其中該通風室上方以一蓋板覆蓋。
4. 依申請專利範圍第1項所述之背投影電視排氣結構，其中該背投影電視內部包含一光源，排氣風扇鄰近該光源。
5. 依申請專利範圍第1項所述之背投影電視排氣結構，其中該出風口設一柵欄。
6. 依申請專利範圍第1項所述之背投影電視排氣結構，其中該導風管為彎曲形，以阻絕光束外漏。
7. 依申請專利範圍第1項所述之背投影電視排氣結構，其中該導風管為吸音材質。
8. 依申請專利範圍第1項所述之背投影電視排氣結構，其中該導風管為橡膠材質。
9. 依申請專利範圍第1項所述之背投影電視排氣結構，其



六、申請專利範圍

中該殼體設通風室之一側係斜向後內縮。



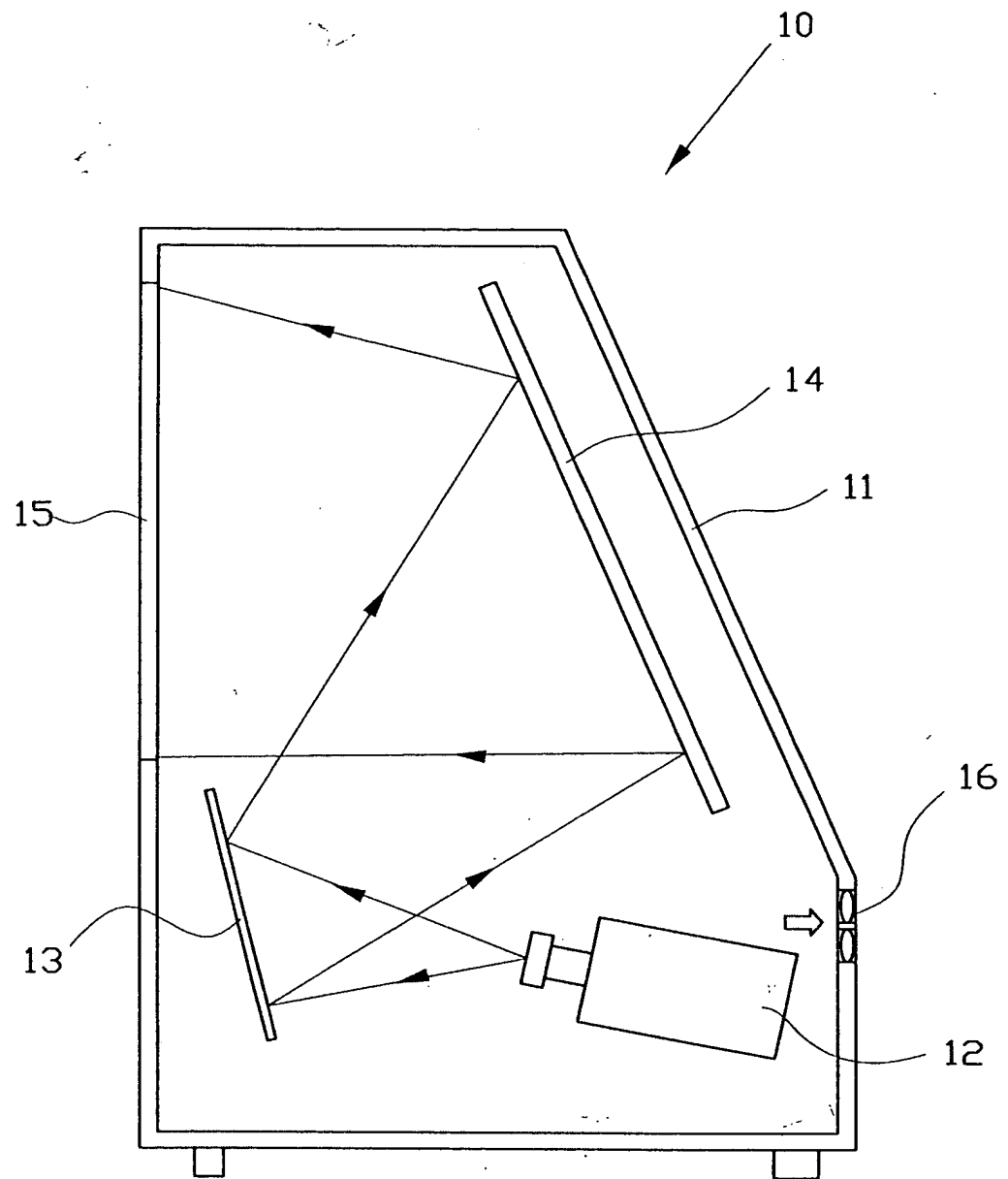


圖 1

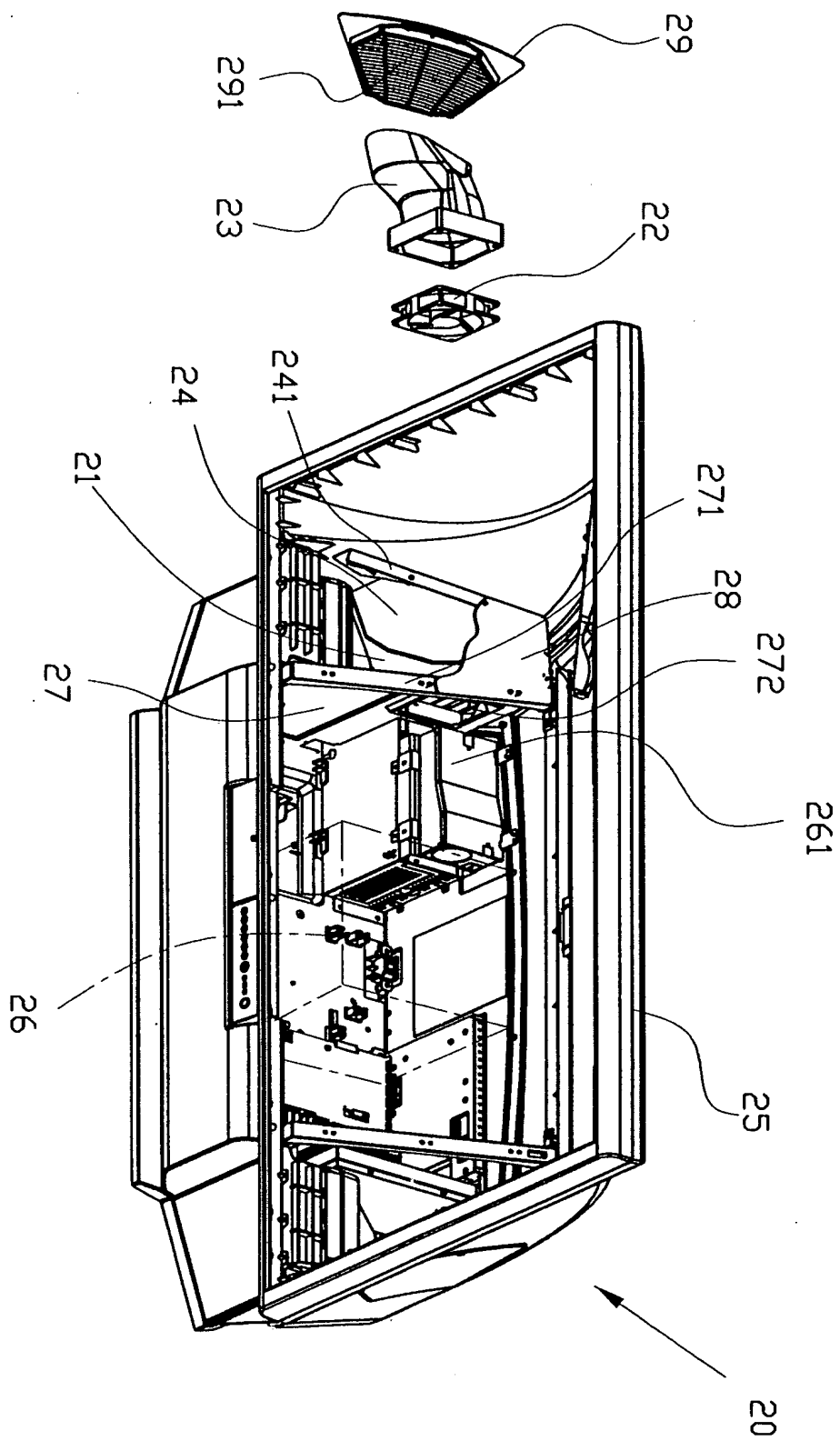


圖 2

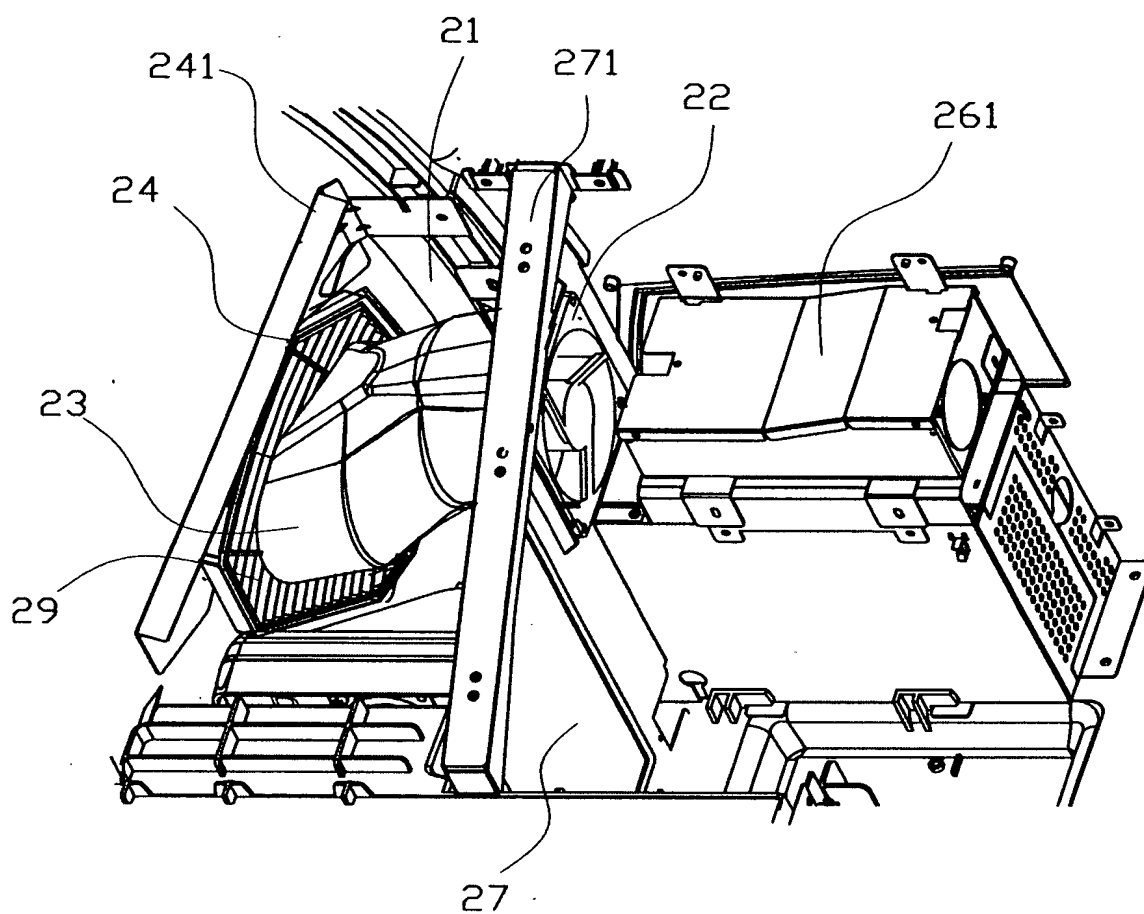


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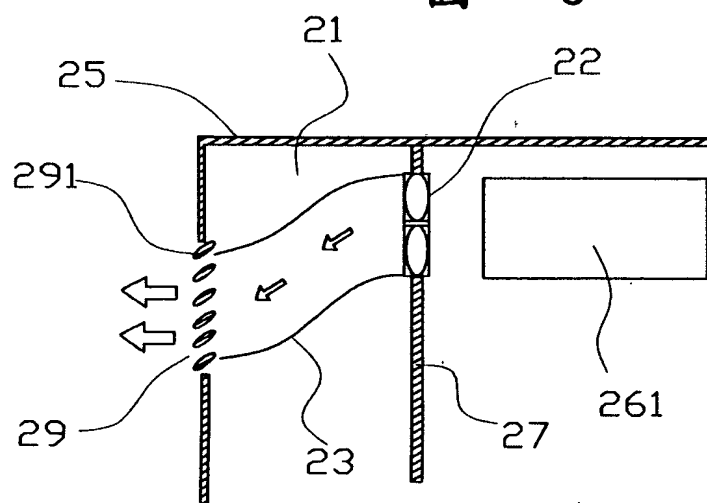
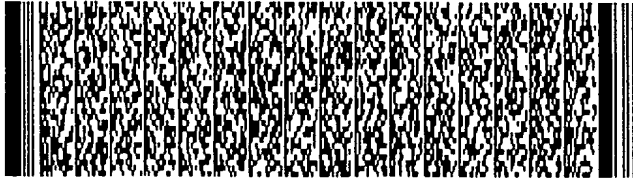


圖 4

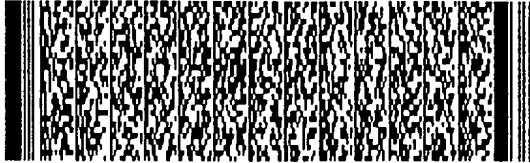
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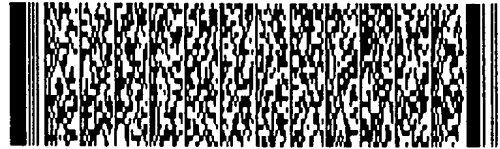
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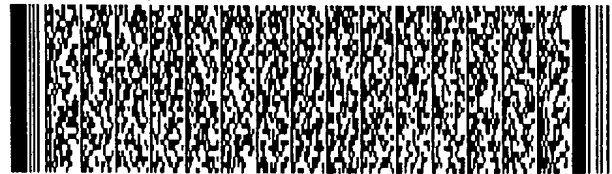
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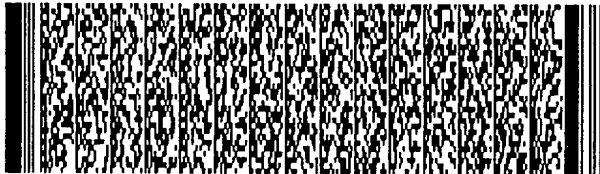
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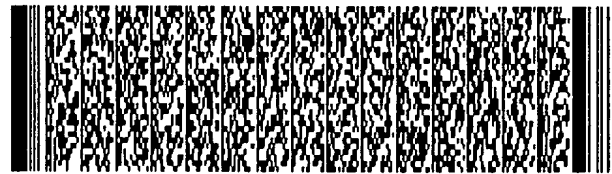
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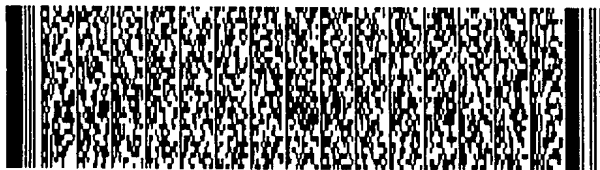
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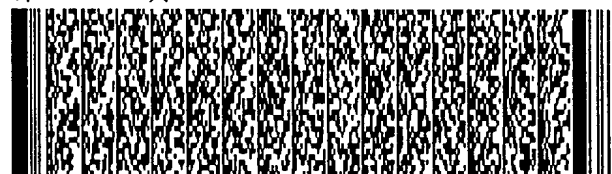
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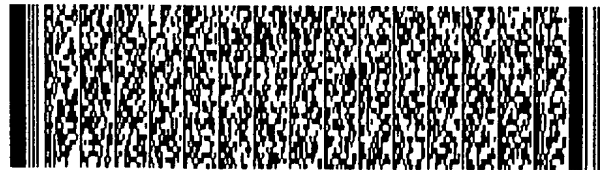
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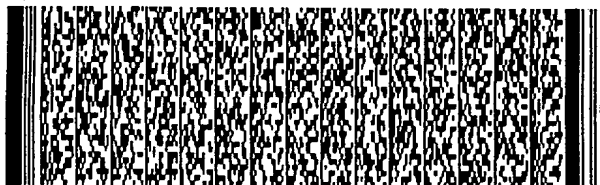
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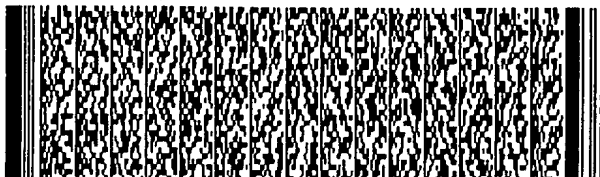
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第 10/11 頁



第 11/11 頁

